



City of Winchester

Water Source Overview

Major water sources include the North Fork Shenandoah River and groundwater wells.

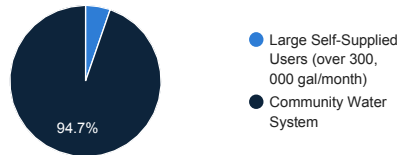
***Table 1:** Reported (2010) and projected (2040) water use by system type for Winchester in MGD

Type	Reported Use 2010 MGD	Projected Use 2040 MGD
Large Self-Supplied Users (over 300,000 gal/month)	0.431	0.449
Community Water System	7.710	10.993

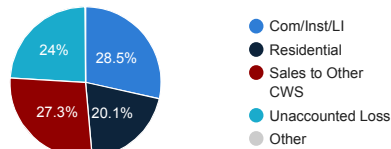
Water Use by System Type

There are no reported users of private groundwater wells for residential water supply. All tables and graphs represent reported water use including Sales to other localities, if applicable.

***Figure 1:** Percentage of reported water use by system type in 2010 (No use data shown on graph if less than .01 MGD. Refer to Table 1)



***Figure 2:** Disaggregated water use percentages for Community Water Systems in 2010 (No graph shown if no disaggregated use data reported)



***Table 2:** Reported (2010) and projected (2040) groundwater and surface water use for Winchester in MGD

Reported 2010 Groundwater Use (MGD)	Reported 2010 Surface Water Use (MGD)	Projected 2040 Groundwater Use (MGD)	Projected 2040 Surface Water Use (MGD)
0.43	7.71	0.45	10.99

***Figure 3:** Winchester highlighted in the Commonwealth of Virginia



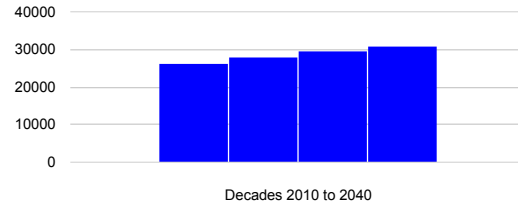
Projected Water Demand

Population and demand are projected to increase through the planning period. Existing water sources are expected to meet projected demands.

***Table 3:** Winchester population projections by decade from 2010 to 2040 (data gathered from VEC projections - 05/20/13)

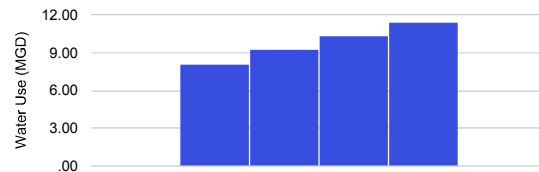
2010	2020	2030	2040	% Change (2010-2040)
26,203	27,967	29,449	30,781	15.4%

***Figure 4:** Winchester population projections by decade for 2010, 2020, 2030 & 2040



***Table 4 & Figure 5:** Winchester water demand trends by decade for 2010, 2020, 2030 & 2040 in MGD

Reported Use 2010 MGD	Projected Use 2020 MGD	Projected Use 2030 MGD	Projected Use 2040 MGD	Percent Change (2010-2040)
8.14	9.24	10.34	11.44	40.5%



Drought Management Practices

The City adopted an ordinance to implement and enforce the Drought Response and Contingency Plan. (Northern Shenandoah Regional WSP)